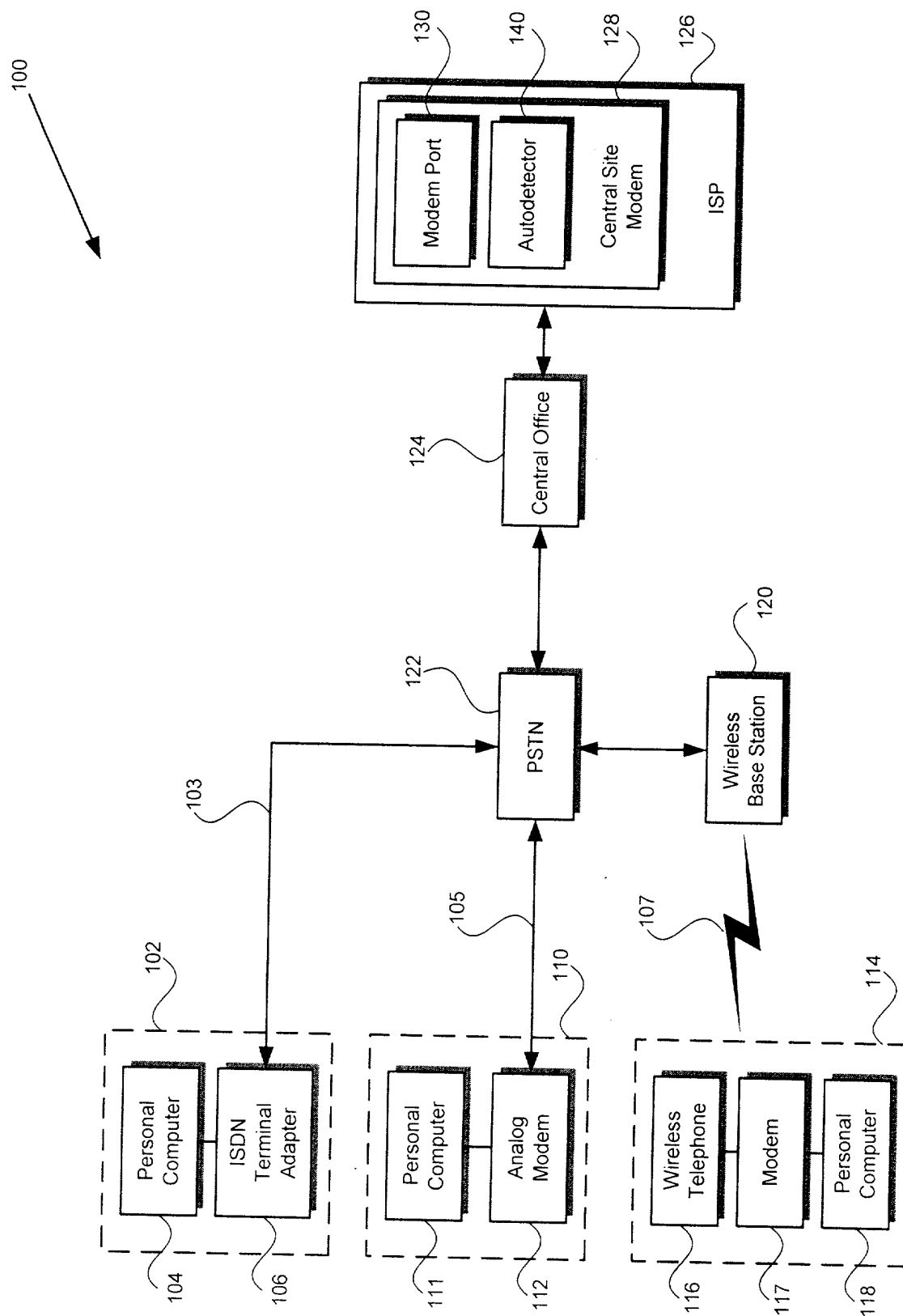
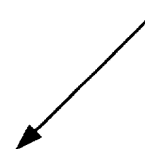


FIG. 1



# FIG. 2

200

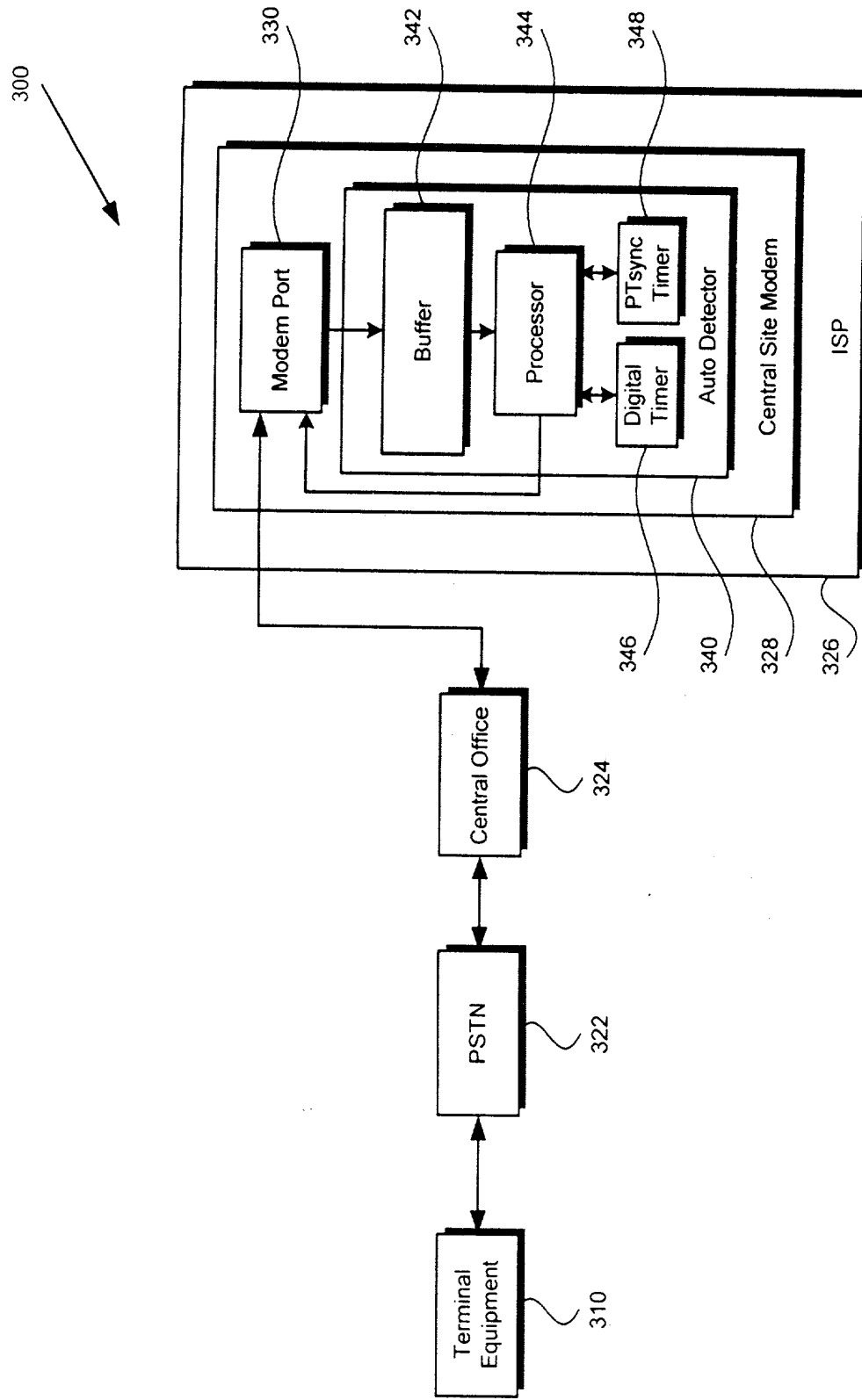


## V.110 Frame structure

Octet number	Bit number							
	1	2	3	4	5	6	7	8
0	0	0	0	0	0	0	0	0
1	1	D1	D2	D3	D4	D5	D6	S1
2	1	D7	D8	D9	D10	D11	D12	X
3	1	D13	D14	D15	D16	D17	D18	S3
4	1	D19	D20	D21	D22	D23	D24	S4
5	1	E1	E2	E3	E4	E5	E6	E7
6	1	D25	D26	D27	D28	D29	D30	S6
7	1	D31	D32	D33	D34	D35	D36	X
8	1	D37	D38	D39	D40	D41	D42	S8
9	1	D43	D44	D45	D46	D47	D48	S9

FIG. 2

FIG. 3



The flowchart in FIG. 4 illustrates five parallel processing paths for determining V.110 and HDLC rates based on bit shifts and sync word detection. Each path starts with a specific bit shift operation on each octet, followed by a series of logical checks and decisions.

- Path 1 (Top):** Starts with "shift in first bit of each octet" (402). The data is then checked against the mask  $\&0x010101ff == 01010100 ??$  (404). If "yes", it leads to "Determine V.110 8K".
- Path 2:** Starts with "shift in first 2 bits of each octet" (406). The data is checked against the mask  $\&0x010101FF == 01010100 ??$  (408). If "yes", it leads to "Determine V.110 16K".
- Path 3:** Starts with "shift in first 4 bits of each octet" (410). The data is checked against the mask  $\&0x010101FF == 01010100 ??$  (412). If "yes", it leads to "Determine V.110 32K".
- Path 4:** Starts with "shift in first 7 bits of each octet" (416). The data is checked against the mask  $== 0x7E7E7E7E \text{ or } 0x7EFD7BF7$  (418). If "yes", it leads to "Determine V.120 or HDLC 56K".
- Path 5 (Bottom):** Starts with "shift in all 8 bits of each octet" (420). The data is checked against the mask  $\&0x010101FF == 01010100 ??$  (422). If "yes", it leads to "Determine V.110 64K".

Additionally, there are two more decision points in the bottom path:

- After the 422 check, the data is checked against the mask  $== 0x7E7E7E7E \text{ or } 0x7EFD7BF7$  (424). If "yes", it leads to "Determine V.120 or HDLC 64K".
- Finally, the data is checked against the sync word  $== \text{'PIAFS\_SYNC\_WORD'}$  (426). If "yes", it leads to "Determine PIAFS 64K".

FIG. 5A

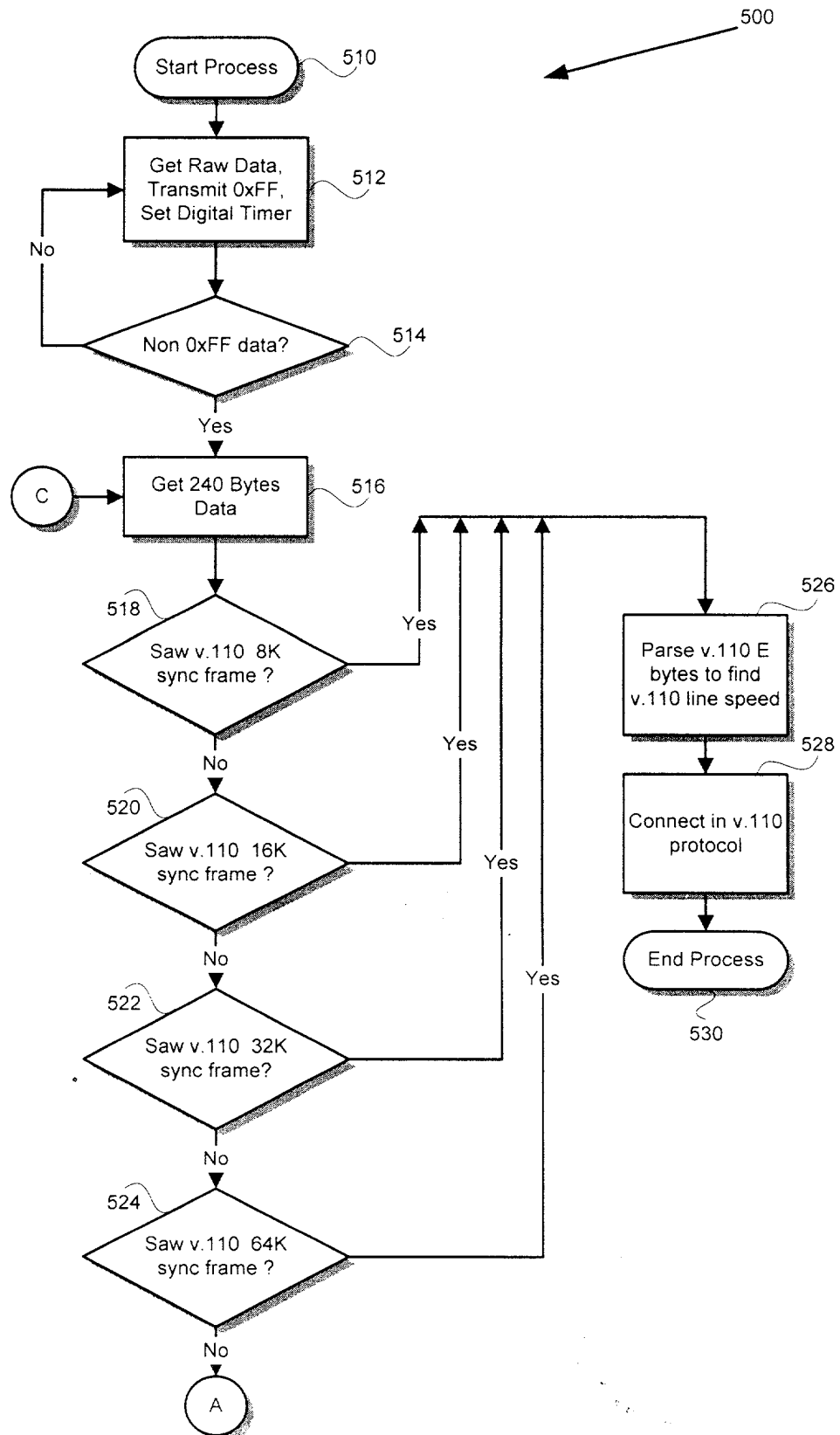


FIG. 5B

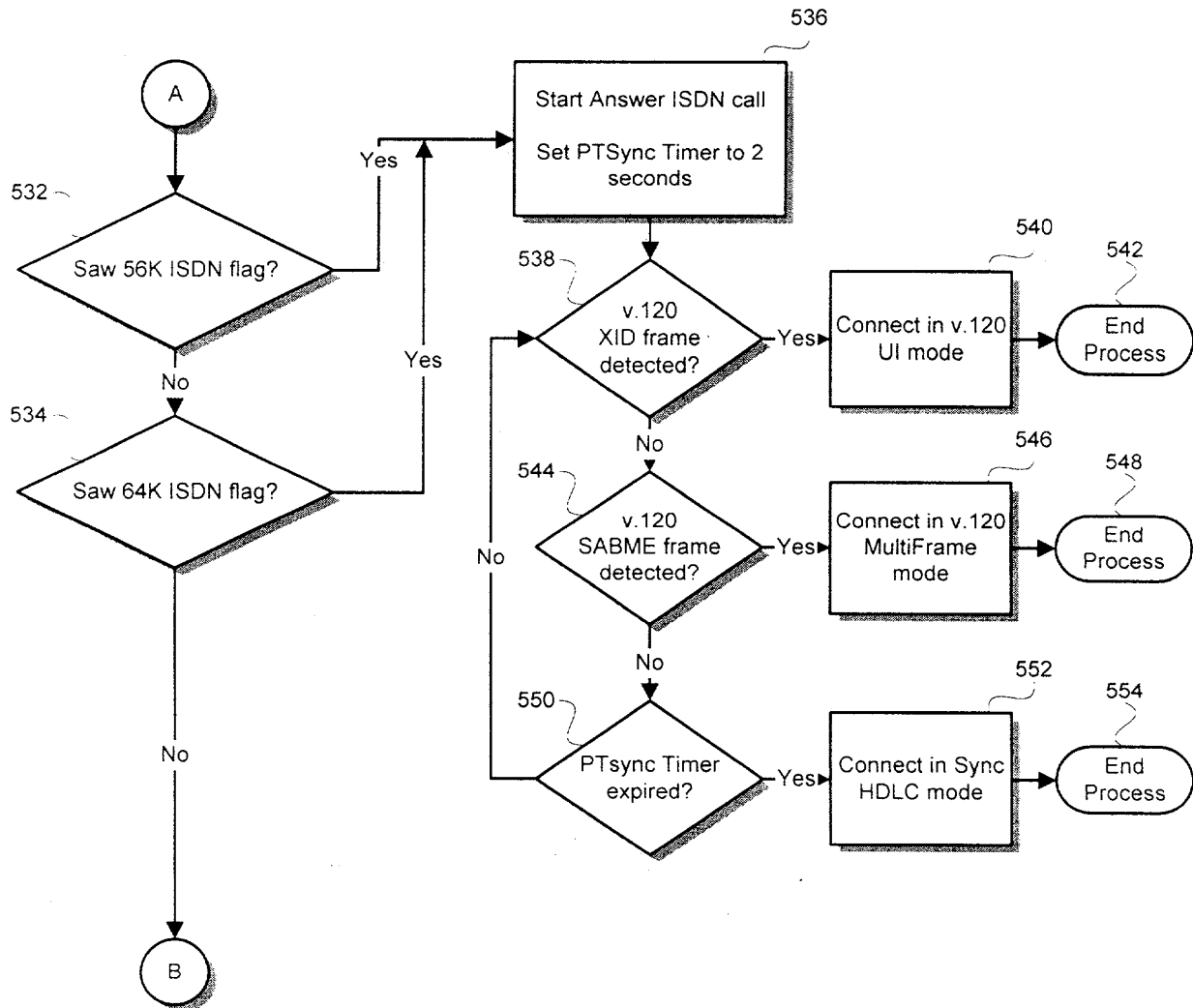


FIG. 5C

